Fall 2012 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2091 Reclamation District No. 2091 Chase	Overall LMA Rating	Total LMA Miles							
Recidination district No. 2091 Chase	A	7.92							
Rated Item		Maintena	nce Deficiancy		Enforc	ement		Design & System Obsolescence	
Rated item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	0.04		0.04	0.51%					
Trim / Thin Trees	0.04		0.04	0.51%					
Encroachments							0.05		
Animal Control	0.08		0.08	1.01%					
LMA Totals:	0.16	0.00	0.16	2.02%	0.00	0.00	0.05	0.00	
Unit No. 01 San Joaquin River RB	Overall Unit Rating	Total Unit Miles							
RD2091	Α	7.59							
D / 111		Maintena	nce Deficiancy		Enforcement Design & Obsole			k System scence	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles		
Earthen Levee									
Encroachments							0.05		
Animal Control	0.08		0.08	1.05%					
Unit Totals:	0.08	0.00	0.08	1.05%	0.00	0.00	0.05	0.00	
Unit No. 02 San Joaquin River NA	Overall Unit Rating	Total Unit Miles							
RD2091	U	0.33							
Rated Item		Maintena	nce Deficiancy		Enforcement Design & Syste Obsolescence			k System scence	
Rateu item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee		ı					ı		
Vegetation	0.04		0.04	12.12%					
Trim / Thin Trees	0.04		0.04	12.12%					
Unit Totals:	0.08	0.00	0.08	24.24%	0.00	0.00	0.00	0.00	

LMA District Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 2091 Chase

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)		
* Overall LMA Rating (Fall Only)			A			
	** Non-receipt of Su	mmer or Winter Insp	ection Reports may effec	ct overall annual rating.		
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall. FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.						
Comments						

Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles
Unit No. 01 San Joaquin River	Right	7.59

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	04/17/2012 - 04/17/2012		11/13/2012 - 11/13/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Mike Alves RD 2091		Mike Alves RD 2091	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Page 1 of 5

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/13/2012 11/13/2012	Richard Willoughby

									-	
LMR I	Levee	Mile	Category	Item	Location	Rating	Action/Comment	GPS Latitude/I	Longitude	Issue No.
No.	Start	End	3.3		o n	+ @		Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		0 0	0 0	2
_								DWR ID: DWR_RD209	91_01_s _ 2012_	
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		0	0	4
								DWR ID: DWR_RD209	91_01_s _ 2012_	_4
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		0	0	5
								DWR ID: DWR_RD20	91_01_s _ 2012_	_5
4	0.00	7.59	Earthen Levee	Vegetation	LS	A Ma	V7 : Trees / Woody Vegetation	0	0	7 Y
						IVIG		DWR ID: DWR_RD20	91_01_f _ 2012_	7
5	2.23	2.30	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	0	0	54
								DWR ID: DWR_RD20	91_01_s _ 2012_	_54
6	4.20	4.20	Earthen Levee	Animal Control	LS	M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	37.503555 ° 3 -121.081932 ° -12 DWR ID: DWR_RD209		1_1
7	4.46	4.51	Earthen Levee	Encroachments	LS	M Ob	DT : Ditch		37.499579 ° 21.080847 °	6 Y
8	7.55	7.55	Earthen Levee	Slope Stability	LS	A/W Ma	S1: Repair slope instability. Inspector Comments: Slide appears to be 100' + feet long on landside slope. Cracks are approx. 4-9" wide and 12-18" deep. Slide extends from the middle of the landside slope to landside toe. District indicated that the landowner repaired erosion/slip with no supervisor from LMA or State. No compaction results was provided. Site does appear to be stable at time of inspection, but should be monitored by LMA.	-121.044695 ° -12		3 Y
								DWR ID: DWR_RD20	91_01_s _ 2012_	_3

* Location LS: Land Side WS: Water Side CR: Crown ** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma: Mainter

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/13/2012 11/13/2012	Richard Willoughby

Levee Mile Report Line	4			
Start Levee Mile	0.00			
End Levee Mile	7.59			
Location	Land Side			
Category	Earthen Levee			
Item	Vegetation			
Looking south at typical view of levee slopes.				

richard_f_20121115_912.JPG

Levee Mile Report Line	7
Start Levee Mile	4.46
End Levee Mile	4.51
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking northeast at irrigation ditch on landside toe.

richard_f_20121115_913.JPG

Levee Mile Report Line	7			
Start Levee Mile	4.46			
End Levee Mile	4.51			
Location	Land Side			
Category	Earthen Levee			
Item	Encroachments			
Looking southeast at irrigation ditch on landside toe				

richard_f_20121115_914.JPG







Location LS: Land Side WS : Water Side CR : Crown

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+ Issue Type

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/13/2012 11/13/2012	Richard Willoughby

Levee Mile Report Line	8				
Start Levee Mile	7.55				
End Levee Mile	7.55				
Location	Land Side				
Category	Earthen Levee				
Item	Slope Stability				
Looking south at slide on landside slope next to irrigation ditch.					

richard_f_20121101_853.jpg

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking couthwest a slid	e on landside slone

Looking southwest a slide on landside slope.

richard_f_20121101_854.jpg

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking at south end of s	slide.

richard_f_20121101_855.jpg







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+ Issue Type

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/13/2012 11/13/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking at north end of s ditch.	lide next to irrigation

richard_f_20121101_856.jpg

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability

Looking south at irrigation ditch at landside toe.

richard_f_20121101_857.jpg

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking south at repaired slope.	d erosion/slip on landside







Location LS: Land Side WS : Water Side CR : Crown

richard_f_20121101_858.jpg

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+ Issue Type

Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	11/13/2012 11/13/2012	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Looking southeast at rep landside slope next to irri	·

richard_f_20121101_859.jpg

Levee Mile Report Line	8
Start Levee Mile	7.55
End Levee Mile	7.55
Location	Land Side
Category	Earthen Levee
Item	Slope Stability
Landido o mande at manada d	

Looking north at repaired erosion/slip on landside slope next to irrigation canal.

richard_f_20121101_860.jpg





Unit Cover Sheet

Fall 2012 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway		Unit Miles
Unit No. 02 San Joaquin River		0.33

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/17/2012 - 04/17/2012		11/13/2012 - 11/13/2012	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By				

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Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	11/13/2012 11/13/2012	Richard Willoughby

LMR	Levee	Mile	Catagory	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
No.	Start	End	Category					Start	End	Photo
1	0.03	0.03	Earthen Levee	Trim / Thin Trees	WS	M Ma	T2 : Thin trees to allow visibility of the ground and room to flood fight.	37.482523 ° -121.051103 ° DWR ID: DWR_RI	37.482523 ° -121.051103 ° ²²⁰⁹¹ _02_s _ 2012	Υ
2	0.06	0.10	Earthen Levee	Vegetation	LS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	37.482815 ° -121.050849 ° DWR ID: DWR_R	37.483306 ° -121.050302 ° ²²⁰⁹¹ 02_f 2012	Υ
3	0.18	0.18	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.484342 ° -121.049848 ° DWR ID: DWR_RI	37.484342 ° -121.049848 ° ⁰²⁰⁹¹ 02_f _ 2012	
4	0.27	0.27	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.485370 ° -121.050099 ° DWR ID: DWR_R	37.485370 ° -121.050099 °	
5	0.29	0.29	Earthen Levee	Trim / Thin Trees	LS	M Ma	T1 : Trim trees to at least five feet above ground level.	37.485447 ° -121.049750 ° DWR ID: DWR_RI	37.485447 ° -121.049750 ° ⁰²⁰⁹¹ 02_f _ 2012	

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Levee Inspection Report By Mile - Fall 2012

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	11/13/2012 11/13/2012	Richard Willoughby

Levee Mile Report Line	1			
Start Levee Mile	0.03			
End Levee Mile	0.03			
Location	Water Side			
Category	Earthen Levee			
Item	Trim / Thin Trees			
Looking west at tree on waterside toe and berm.				

richard_f_20121101_861.jpg

Levee Mile Report Line	1
Start Levee Mile	0.03
End Levee Mile	0.03
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

Looking west at untrimmed tree on waterside slope.

richard_f_20121101_862.jpg

Levee Mile Report Line	2		
Start Levee Mile	0.06		
End Levee Mile	0.10		
Location	Land Side		
Category	Earthen Levee		
Item	Vegetation		
Looking east at typical view of tumble weeds on			

levee slopes.

richard_f_20121115_915.JPG







* Location

LS: Land Side

WS: Water Side

CR: Crown

** Rating

A : Acceptable
M : Minimally Acceptable
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N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type